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DEPARTMENT OF THE INTERIOR.

UNITED STATES GEOGRAPHICAL AND GEOLOGICAL SURVEY
OF THE ROCKY MOUNTAIN REGION

J. W. POWELL

IN CHARGE.

TOPOGRAPHICAL AND GEOLOGICAL

ATLAS

OF THE DISTRICT OF THE

HIGH PLATEAUS

OF UTAH

TO ACCOMPANY THE REPORT OF

CAPT. C. E. DUTTON

U. S. ORDNANCE CORPS
ASSISTANT GEOLOGIST.

JULIUS BIEN, LITH.
NEW YORK.
1879.

G 4341
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1879
.U5

MAP

OF THE DISTRICT

OF THE

HIGH PLATEAUS OF UTAH

Triangulation by A.H.THOMPSON.

Topographers J.H.RENSHAWE,

W. H. GRAVES.

Scale 1 Inch = 4 Miles.

Vertical distance between Contours 250 feet.

DO NOT CIRC ATE

BYU LIBRARY MAP COLLECTION JUL 81983 PROVO, UTAH

GEOLOGICAL MAP
OF THE DISTRICT
OF THE
HIGH PLATEAUS OF UTAH

Triangulation by A.H. THOMPSON.

Topographers J.H. RENSHAWE,
W. H. GRAVES.

Geology by CAPT C.E. DUTTON, U.S.A.

Scale 1 Inch = 4 Miles.

Vertical distance between Contours 250 feet.

EXPLANATION OF COLORS

- Q. Quaternary
- T. Tertiary
- Cr. Cretaceous
- J. Jurassic
- U.T. Upper Triassic
- L.T. Lower Triassic (Shinarump)
- Cn. Carboniferous
- A. Andesite & Propylite
- Tr. Trachyte
- R. Rhyolite
- B. Basalt

DO NOT CIRCULATE

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MAP COLLECTION
JUL 8 1983
PROVO, UTAH

DEPT OF THE INTERIOR, U.S.G. AND G. SURVEY, J.W. POWELL IN CHARGE

ATLAS SHEET N° 3.

GEOLOGY OF THE HIGH PLATEAUS OF UTAH, BY CAPT C.E. DUTTON, U.S.A.

RELIEF MAP

OF THE

DISTRICT OF THE

HIGH PLATEAUS OF UTAH

SCALE 5 MILES = 1 INCH

MAP

OF PORTIONS OF

UTAH AND ARIZONA

Showing the Arrangement of

FAULTS AND FLEXURES

IN THE

KAIBABS AND HIGH PLATEAUS.

Scale 1 inch = 10 miles

1. Grand Wash Fault
2. Hurricane ,,
3. Toroweap ,,
4. Tushar ,,
5. Sevier ,,
6. West Kaibab ,,
7. East Kaibab ,,
8. Paunsagunt ,,
9. Hayfield ,,
10. Awapa ,,
11. West Musinia ,,
12. East Musinia ,,
13. Echo Cliff ,,
14 Thousand Lake ,,
15 Water Pocket Flexures

STEREOGRAM OF DISPLACEMENTS

IN THE DISTRICT

OF THE

HIGH PLATEAUS OF UTAH

Showing the vertical displacement of a given horizon since the close of the Green River epoch, with the supposition that there had been no erosion.

By

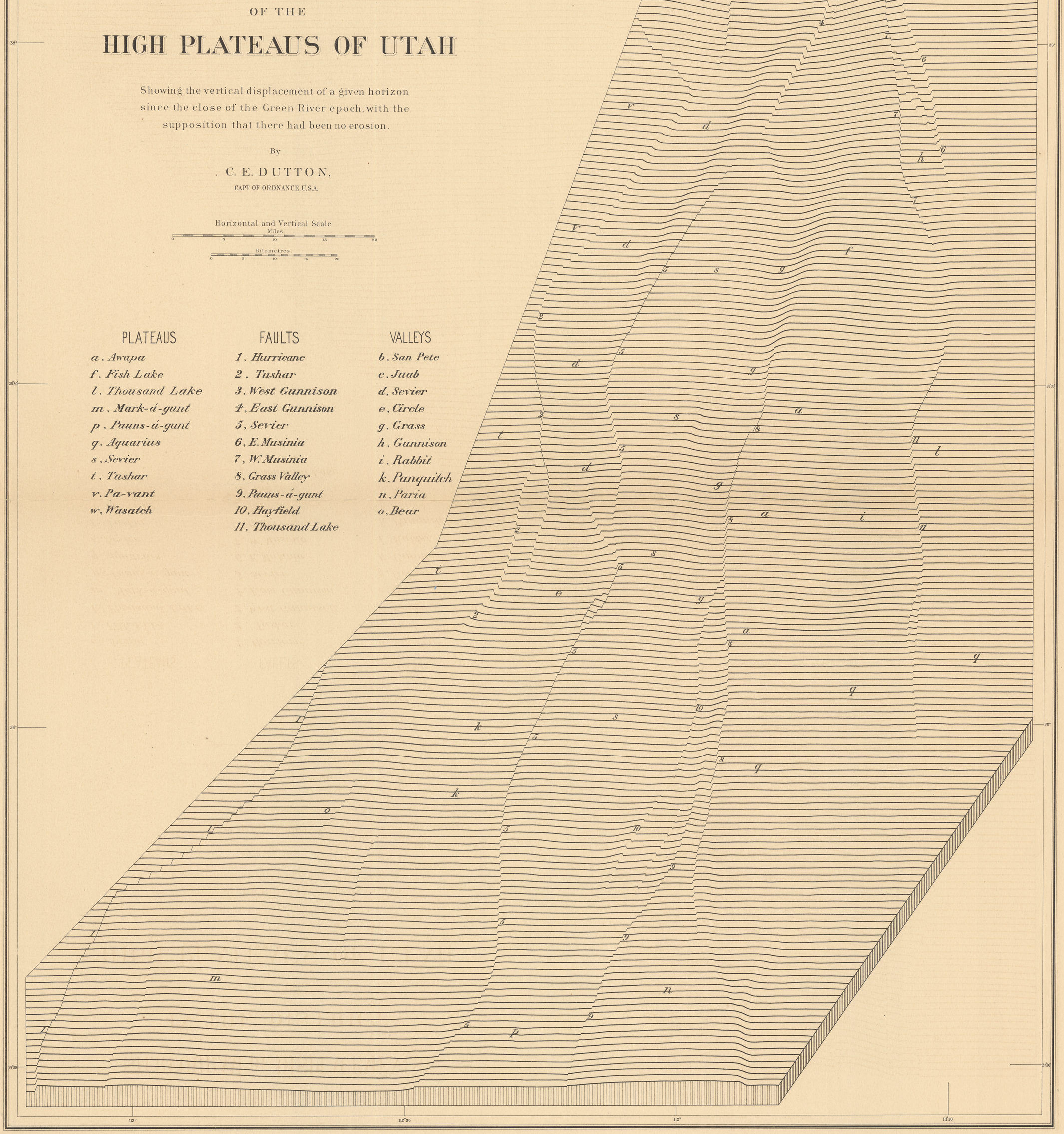
C. E. DUTTON,

CAPT OF ORDNANCE, U.S.A.

Horizontal and Vertical Scale

Miles. 0 5 10 15 20

Kilometres. 0 5 10 15 20



PLATEAUS

a, Awapa
f, Fish Lake
l, Thousand Lake
m, Mark-á-gunt
p, Pauns-á-gunt
q, Aquarius
s, Sevier
t, Tushar
v, Pa-vant
w, Wasatch

FAULTS

1, Hurricane
2, Tushar
3, West Gunnison
4, East Gunnison
5, Sevier
6, E. Musinia
7, W. Musinia
8, Grass Valley
9, Pauns-á-gunt
10, Hayfield
11, Thousand Lake

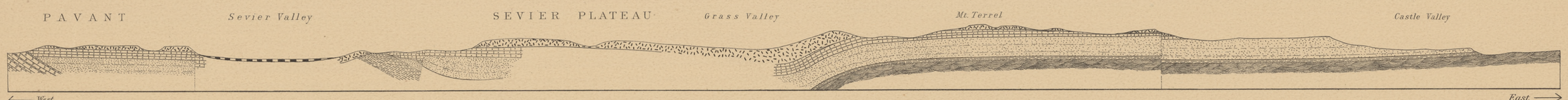
VALLEYS

b, San Pete
c, Juab
d, Sevier
e, Circle
g, Grass
h, Gunnison
i, Rabbit
k, Panquitch
n, Paria
o, Bear

STRUCTURE SECTIONS THROUGH THE HIGH PLATEAUS.

Horizontal and Vertical Scale 1 Inch – 2 Miles.

SECTION Nº 1.



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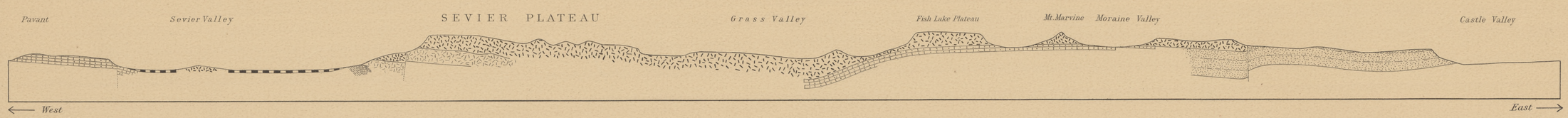

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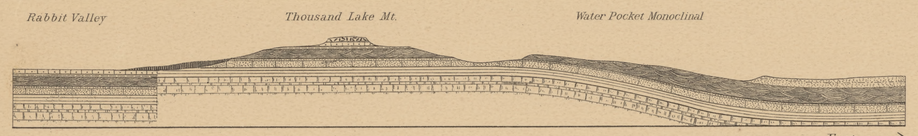
SECTION Nº 4.



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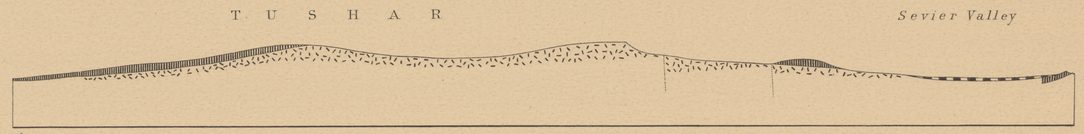

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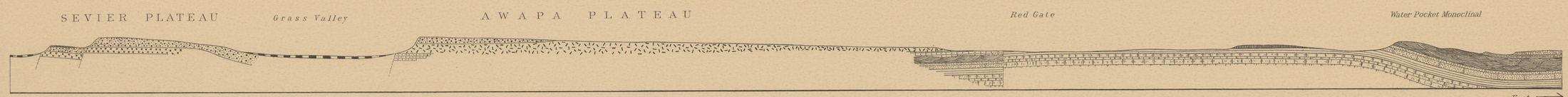

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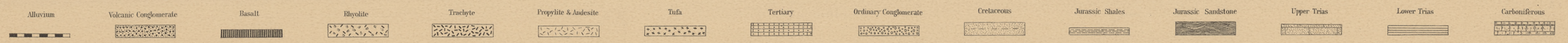
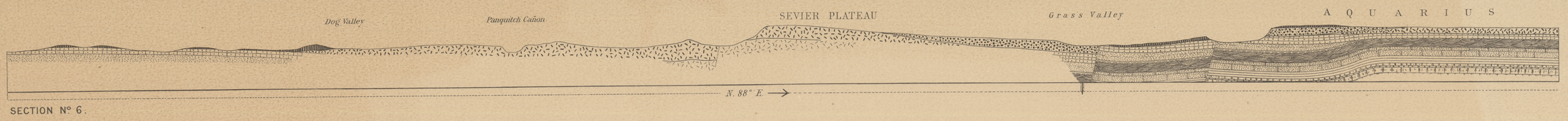


STRUCTURE SECTIONS THROUGH THE HIGH PLATEAUS.

Horizontal and Vertical Scale 1 Inch = 4 Miles.



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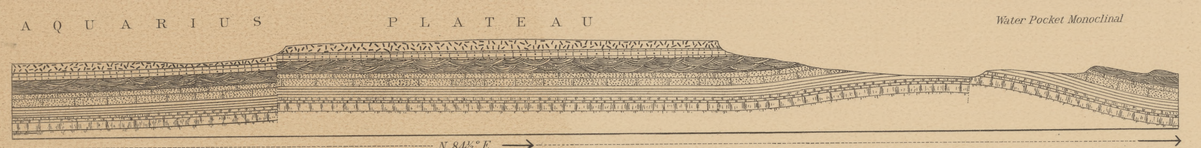

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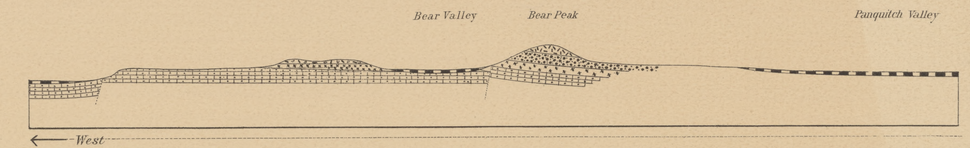

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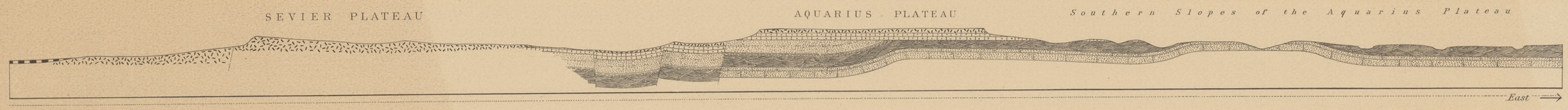

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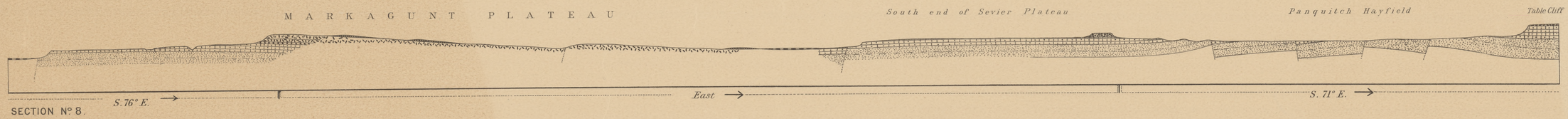

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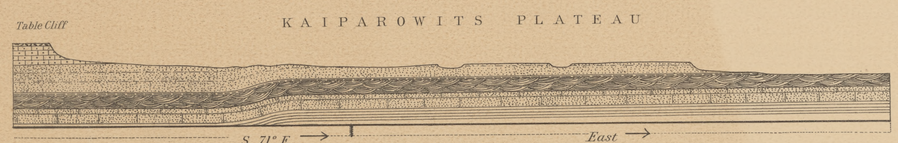

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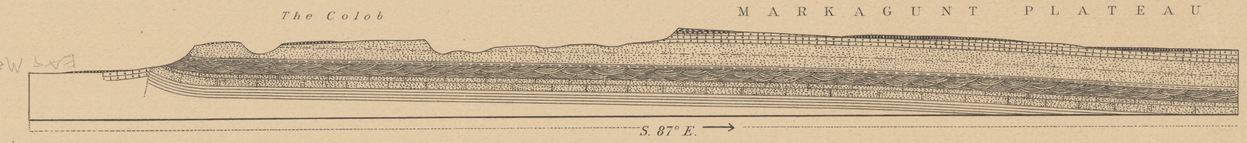

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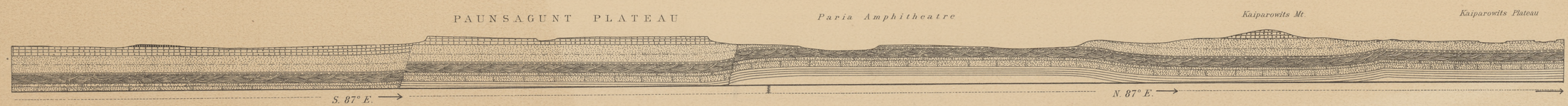

SECTION N° 9. CONTINUED

Alluvium · Volcanic Conglomerate · Basalt · Rhyolite · Trachyte · Propylite & Andesite · Tufa · Tertiary · Cretaceous · Jurassic Shales · Jurassic Sandstone · Upper Trias · Lower Trias · Carboniferous